

Unit Name

Human Evolutionary Genomics Unit

Collaborations

Prof. Ryosuke Kimura, University of the Ryukyus, University of the Ryukyus, Japan, Population history of the Ryukyus.

Prof. Prof. Ken-ichi Shinoda, National Museum of Nature and Science, Tokyo, Japan, Population history of Japan.

Prof. Bernd Kuhn, OIST, Japan, Effects of human-specific genetic changes.

Prof. Izumi Fukunaga, OIST, Japan, Effects of human-specific changes in the gene ADSL

Prof. Wieland Huttner, Max Planck Institute for Cell Biology and Genetics, Dresden, Germany, Effects of human-specific changes in genes involved in chromosomal segregation.

Prof. Hugo Zeberg, Karolinska Institutet, Stockholm, Sweden, Effects of archaic genetic variants in present-day populations.

Prof. Fuji Nagami, Prof. Nobuo Fuse, Assistant Prof. Makiko Taira, Prof. Kengo Kinoshita, Assistant Prof. Shu Tadaka, Tohoku Medical Megabank Organization, Tohoku University, Japan, Archaic genetic contributions to the Japanese population.

Research Personnel

ShinYu Lee, Postdoctoral Scholar

Xiangchun Ju , Postdoctoral Scholar

Chika Azama, Research Unit Technician

Limin Chen, Research Unit Technician

Hugo Zeberg, Visiting Reseacher

Mateja Hajdinjak, Visiting Reseacher

Chie Narai, RUA

Scholarly Contributions and Creative Productions (by Faculty)

Journal Article

1. Helmbrecht, N.; Lackner, M.; Maricic, T.; Pääbo, S.
The Modern Human Aryl Hydrocarbon Receptor Is More Active When Ancestralized by Genome Editing. *Proceedings of the National Academy of Sciences of the United States of America* 2024, 121.
2. Xing, L.; Gkini, V.; Nieminen, A.; Zhou, H.; Aquilino, M.; Naumann, R.; Reppe, K.; Tanaka, K.; Carmeliet, P.; Heikinheimo, O.; Huttner, W.; Namba, T.; Pääbo, S.
Functional Synergy of a Human-Specific and an Ape-Specific Metabolic Regulator in Human Neocortex Development. *Nature Communications* 2024, 15.
3. Pääbo, S. E.

The Genetic Changes That Shaped Neandertals, Denisovans, and Modern Humans. Cell 2024.

Scholarly Contributions (by Unit Members)

Name of Unit Member	Type	Title	Outlet
Xiangchun Ju	Journal Article	Thymosin beta 4 down-regulation contributes to the pathology of Alzheimer's disease in cerebral organoids with APP mutations.	Stem Cell Reports
Xiangchun Ju	Poster Presentation at Conference	A modern human-specific amino acid substitution in ADSL affects the competitive behavior of female mice	Neuro2024
Xiangchun Ju	Presentation at Conference	Reduced activity of the enzyme adenylosuccinate lyase affects the competitive behavior of female mice (Awarded: Outstanding Young Scientist TOMY Award)	30th EAST Asia Joint Symposium (EAJS)
Shin Yu Lee	Presentation at Conference	Impact of hominin-specific genetic variations on skeletal muscle (Awarded: Outstanding Young Scientist TOMY Award)	30th EAST Asia Joint Symposium (EAJS)

Honors, Awards & Fellowships

2024-12-17	Doctor honoris causa, 名誉博士号, 2024, The University of Liège
2024-04-19	Doctor honoris causa, 名誉博士号, 2024, University of Oviedo, Asturias, Spain.
2024-03-21	Royal Order of the Polar Star (KmstkNO), 北極星勲章, 2024, Swedish Royal Family

Honors, Awards & Fellowships (only by unit members)

2024-10-01	Xiangchun Ju, Outstanding Young Scientist TOMY Award, 優れた若手研究者トミー賞, 30th EAJS-Taipei, EAJS, 30th EAJS-Taipeiにて優れた若手研究者に贈られるトミー賞を受賞した。
2024-10-01	Shin Yu Lee, Outstanding Young Scientist TOMY Award, 優れた若手研究者トミー賞, 30th EAJS-Taipei, EAJS, 30th EAJS-Taipeiにて優れた若手研究者に贈られるトミー賞を受賞した。